

Claims

What is claimed is:

1. A modulation stage for signal shaping comprising:
 - 5 means for preliminary noise-shaping of an input signal; and means for discrete-time sampling having a predetermined sampling frequency, the sampling means coupled to the noise-shaping means to produce an output signal with a lower transition rate with respect to said sampling frequency by a predetermined multiple.
- 10 2. A modulation stage for signal shaping of claim 1 wherein the means for discrete-time sampling further comprises means for suppressing sampling of the input signal for a set number of clock cycles.
- 15 3. A modulation stage for signal shaping of claim 2 wherein the means for suppressing comprises means for detecting a transition in the output signal.
4. A H-bridge controller wherein its outputs consist of three states.
- 20 5. A H-bridge controller of claim 4 wherein the gating mechanism for each leg is independently controlled.
6. A digital amplifier comprising:
 - a modulation stage for signal shaping; and
- 25 a H-bridge controller wherein its outputs consist of three states.